AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions of claims in the application.

1. (Currently amended) A heat-resistant Ni-alloy composite having excellent high-temperature oxidation resistance, comprising:

a Ni-alloy substrate and

a multi-layer surface structure formed on the Ni-alloy substrate, ~~the multi-layer surface structure being formed by Al-diffusing treatment of the Ni-alloy substrate containing Cr, or by Al-diffusing treatment of the Ni-alloy substrate coated with a Cr-containing layer,~~ comprising

an inner Cr layer with Cr content of about 85 atomic percent to about 95 atomic percent in the form of α-Cr phase composed of precipitates between the substrate and an outer layer and

the outer layer composed of a β phase (Ni-Al-Cr) and a γ' phase ($Ni_3Al(Cr)$), wherein the Al content in the outer layer is homogeneous and is at least 20 atomic percent, and the Cr content in the outer layer is saturated,

wherein said multi-layer surface structure is formed by diffusing Al in a $NiAl_3$ ($+Ni_2Al_3$) layer formed on the Ni-alloy substrate containing Cr.

2-4. (Cancelled).

5. (Original) The heat-resistant Ni-alloy composite according to claim 1, wherein the Ni-alloy substrate comprises a heat-resistant Ni-based alloy or a Ni-based superalloy.

6. (Original) The heat-resistant Ni-alloy composite according to claim 1, wherein the Ni-alloy substrate comprises a Ni-Cr-based alloy having a Cr content of at least 20 atomic percent.

7. (New) A heat-resistant Ni-alloy composite having excellent high-temperature oxidation resistance, comprising:

a Ni-alloy substrate and

a multi-layer surface structure formed on the Ni-alloy substrate, comprising

an inner Cr layer with Cr content of about 85 atomic percent to about 95 atomic percent in the form of α-Cr phase composed of precipitates between the substrate and an outer layer and

the outer layer composed of a β phase (Ni-Al-Cr) and a γ' phase ($Ni_3Al(Cr)$), wherein the Al content in the outer layer is homogeneous and is at least 20 atomic percent, and the Cr content in the outer layer is saturated,

wherein said multi-layer surface structure is formed by diffusing Al in a $NiAl_3$ ($+Ni_2Al_3$) layer formed on a Cr-containing layer coated on the Ni alloy substrate.

8. (New) The heat-resistant Ni-alloy composite according to claim 7, wherein the Cr-containing layer is a Ni-Cr-based alloy layer.

9. (New) The heat-resistant Ni-alloy composite according to claim 7 and 8, wherein the Cr-containing layer has a Cr content of at least 20 atomic percent.